



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**DESIGN DIVISION**  
SUITE 1300, JAMES K. POLK BUILDING  
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NASHVILLE, TENNESSEE 37243-1402  
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**JOHN C. SCHROER**  
COMMISSIONER

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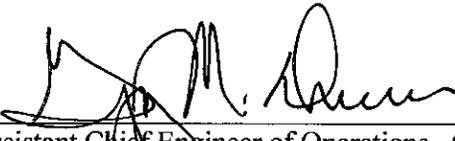
TO: Greg Duncan, Assistant Chief Engineer of Operations  
FROM:  Carolyn Stonecipher, Director, Roadway Design Division  
SUBJECT: Proprietary Item Request and Justification  
City of Memphis Signalization Components of Projects with Federal Funds  
DATE: February 27, 2014

The City of Memphis is requesting a certification to specify Eagle EPAC controllers by Siemens to be used in the signalization component of projects within the City of Memphis' control and maintenance over the next three years using federal funds. These controllers would also be used in projects throughout Shelby County as the City of Memphis maintains the signals for all of Shelby County including those in all municipalities. The request is based on the need to provide full synchronization capabilities with the existing traffic signal network.

**Justification**

This item is essential for the synchronization of existing facilities. There are currently 770 traffic signals in the City of Memphis and about 220 traffic signals in Shelby County outside the City of Memphis. Of the 990 signalized intersections, 892 have Eagle EPAC controllers. The City of Memphis maintains an inventory of parts for the Eagle series of controllers and their Traffic Signal Technicians have undergone extensive technical training for trouble shooting, programming and maintaining these controllers.

I, Carolyn Stonecipher, Director of the TDOT Roadway Design Division, do hereby certify that in accordance with the requirements of 23 CFR 635.411(a) (2) that the patented or proprietary item identified above is essential for the synchronization of existing facilities.

  
Assistant Chief Engineer of Operations (Concurrence)

2-28-14  
Date

CC: Jeff C. Jones, TDOT Assistant Chief Engineer of Design  
Brad Freeze, TDOT Director of Traffic Operations  
Mike Tugwell, TDOT State Traffic Engineer  
Pete Falkenberg, TDOT Design Division  
Lee Jones, TDOT Design Division  
Danny Lane, TDOT HQ Materials & Tests Division  
Randall Tatum, City of Memphis, Administrator, City Traffic Engineer



February 25, 2014

Mr. Pete Falkenberg, P.E.  
Civil Engineering Manager  
Design Division  
Tennessee Department of Transportation  
James K. Polk Building, Suite 1300  
Nashville, TN 37243

**SUBJECT: Request for Proprietary Traffic Signal Products Certification  
(Traffic Signal Controllers)**

Dear Mr. Falkenberg:

The City of Memphis would like to request the use of Eagle EPAC controllers by Siemens on all Traffic Signal projects within the City of Memphis and Shelby County. The City of Memphis maintains the traffic signals for all of Shelby County, including the suburban municipalities of Arlington, Bartlett, Collierville, Germantown, Lakeland, and Millington. There are currently 770 traffic signals located in the City of Memphis and approximately 220 traffic signals in Shelby County outside of the City of Memphis. Our inventory of existing equipment is comprised primarily of Eagle EPAC controllers. The City of Memphis maintains an inventory of parts for the Eagle series of controllers and our Traffic Signal Technicians have undergone extensive training on the maintenance, programming, and trouble shooting of the Eagle EPAC controllers. The use of Eagle EPAC controllers is requested for full synchronization with existing equipment. Thank you for your consideration of this request to better serve the citizens of Memphis and Shelby County with increased safety and efficiency through normal operations and maintenance activities. If you have any questions please feel free to contact me at 901-636-6710.

Sincerely,



Randall Tatum, P.E.  
Administrator, City Traffic Engineer  
City of Memphis  
Division of Engineering